

In the Claims:

Please amend the claims as follows:

1. (currently amended) A weapon effect simulation system, comprising:

a weapon comprising a fire simulation system comprising ~~means for transmitting a~~  
transmitter configured to transmit electromagnetic waves from a weapon to simulate real  
ammunition from ~~a weapon~~ the weapon, and means for including information in the  
electromagnetic waves, the fire simulation system further comprising ~~means for a~~ calculating  
unit configured to calculate an imagined trajectory of the simulated ammunition and means for  
determining a geographical position of the weapon, wherein the means for including information  
in the electromagnetic waves is operative to include in the electromagnetic waves information  
related to coordinates in the three-dimensional space for the calculated ammunition trajectory;  
and

at least one target comprising a ~~at least one~~ hit simulation system comprising a receiver  
configured to receive ~~means for receiving~~ the transmitted electromagnetic waves from the  
weapon and means for determining whether a target has been hit based on the information in the  
received electromagnetic waves.

2. (currently amended) The weapon effect simulation system according to claim 1,  
wherein the ~~means for transmitting electromagnetic waves~~ transmitter comprises a laser  
transmitter operative to transmit laser radiation with at least one beam lobe.

3. (currently amended) The weapon effect simulation system according to claim 2, wherein the ~~means for transmitting electromagnetic waves~~ transmitter further comprises a radio transmitter operative to transmit radio waves.

4. (previously amended) The weapon effect simulation system according to claim 3, wherein the means for determining whether the target has been hit is operative to determine target hits based primarily on the information in the laser radiation and secondarily on the information in the radio waves.

5. (currently amended) The weapon effect simulation system according to claim 1, wherein the ~~means for transmitting electromagnetic waves~~ transmitter comprises a radio transmitter operative to transmit radio waves.

6. (previously amended) The weapon effect simulation system according to claim 1, wherein the means for including information in the electromagnetic waves is operative to continuously include, based on the calculated trajectory, information concerning the current trajectory position of the simulated ammunition.

7. (previously amended) The weapon effect simulation system according to claim 1, wherein the means for including information in the electromagnetic waves is operative to include, during a period of time that is shorter than the flight time of the real ammunition and based on the calculated trajectory, information concerning the trajectory positions of the simulated ammunition.

8. (currently amended) The weapon effect simulation system according to claim 1, wherein the ~~means for calculating~~ unit ~~the trajectory of the simulated ammunition~~ is operative so as to determine ~~the~~ an impact point or burst point of the ammunition, and wherein the information related to the calculated ammunition trajectory contains the impact point or burst point.

9. (currently amended) The weapon effect simulation system according to claim 1, wherein the fire simulation system comprises a transmitter operative to transmit information regarding the geographical position of the weapon, and wherein ~~a minimum of one of the~~ at least one of the at least one target comprises a hit simulation system comprising a receiver operative to receive said position data.

10. (previously amended) The weapon effect simulation system according to claim 9, wherein the information related to the calculated ammunition trajectory is determined relative to the geographical position of the weapon.

11. (currently amended) The weapon effect simulation system according to claim 1, wherein said ~~at least one~~ hit simulation system comprises means for determining the geographical position of the target.

12. (currently amended) The weapon effect simulation system according to claim 11, wherein at least one of the targets comprises a hit simulation system ~~systems comprises system~~

comprising a transmitter, and wherein the fire simulation system comprises a receiver operative to receive information from the transmitter of the hit simulation system.

13. (currently amended) The weapon effect simulation system according to claim 12, wherein the transmitter of the hit simulation system is operative to transmit information regarding the geographical position of the target.

14. (currently amended) The weapon effect simulation system according to claim 13, wherein the calculating ~~means~~ unit is operative to determine which target has been hit, and wherein the information related to the calculated ammunition trajectory includes information that identifies the determined target.

15. (currently amended) The weapon effect simulation system according to claim 12, wherein the transmitter of the hit simulation system is operative to transmit a hit message upon determination of a hit.

16. (currently amended) The weapon effect simulation system according to claim 15, wherein ~~the~~ a receiver for a hit simulation system that has not determined a hit, ~~the so-called~~ "secondary object", acts as a secondary object and is operative to receive the transmitted hit message.

17. (previously amended) The weapon effect simulation system according to claim 16, wherein the means of the secondary object for determining hits is operative to decide upon

receiving hit messages whether the secondary object has been hit.

18. (currently amended) The weapon effect simulation system according to claim 15, wherein the ~~means for transmitting electromagnetic waves~~ transmitter is operatively connected with the receiver of the fire simulation system and is operative to break off the simulation upon receiving the hit message.

19. (currently amended) The weapon effect simulation system according to claim 15, wherein the fire simulation system comprises ~~means for displaying~~ a display configured to display hit locations and effects based on received hit messages.

20. (previously amended) The weapon effect simulation system according to claim 19, wherein the ~~means for displaying hit locations and effects~~ display is operative to display hit locations and effects visually.

21. (previously amended) The weapon effect simulation system according to claim 1, wherein the fire simulation system is disposed at a weapon.

22. (currently amended) The weapon effect simulation system according to claim 1, wherein the means operative to determine the geographical position of the weapon has a geographical position that is separate from the geographical position of the ~~means operative to transmit electromagnetic waves for simulating real ammunition~~ transmitter.

23. (previously amended) The weapon effect simulation system according to claim 1, wherein said at least one hit simulation system is disposed in connection with a respective target.

24. (currently amended) The weapon effect simulation system according to claim 1, wherein the means for determining whether a target has been hit is operative to determine ~~the~~ a hit location on the target.

25. (currently amended) The weapon effect simulation system according to claim 1, A ~~player, comprising: a fire simulation system and a hit simulation system according to claim 1,~~ wherein the means of the hit simulation system for determining whether a target has been hit are operatively connected with the ~~means~~ transmitter of the fire simulation system ~~for transmitting electromagnetic waves~~ and operative to break off the simulation ~~in the event that~~ if a hit is determined corresponding to damage or injury that renders continued firing impossible.

26. (currently amended) A fire simulation system for weapon effect simulation systems, comprising:

a transmitter configured to transmit ~~means for transmitting~~ electromagnetic waves for simulating ammunition from a weapon;

means for including information in the electromagnetic waves operative to include information related to coordinates in the three-dimensional space for the calculated ammunition trajectory;

a calculating unit configured to calculate ~~means for calculating~~ the imagined trajectory of the ammunition; and

means for determining the geographical position of the weapon.

27. (currently amended) A method for simulating ~~the~~ an effect of a weapon on one or more potential targets, the method comprising:

calculating with the weapon the imagined trajectory of the simulated ammunition,

modulating with information electromagnetic waves for simulating ammunition from the weapon, wherein the information includes information related to coordinates in the three-dimensional space for the calculated ammunition trajectory,

transmitting from the weapon the modulated electromagnetic waves for reception by the potential targets,

making a determination ~~is made~~ with the targets upon reception of the electromagnetic waves for each respective target as to whether the target has been hit, based on the received electromagnetic waves, ~~and~~

~~calculating the imagined trajectory of the simulated ammunition.~~